# Designated Erosion Control Inspector Workshop Lake County SMC

Kelcey Traynoff Sr. Civil Engineer January 5, 2017



#### Welcome and Housekeeping Items

- No food or drink allowed in the auditorium
- Restrooms are located next to the breakfast room
- CLC is a smoke-free campus
- Please mute your cell phones
- All materials will be made available on the SMC website



#### Workshop Agenda

- DECI Program Overview
- Case Study Watermain Installation at Sun Lake Forest Preserve
- DECI Inspection Process and Requirements
- Transitioning a Site Into, Through, and Out of Winter
- Case Study Day Lighting of the Skokie River on the Proctor and Gamble Parcel
- Case Study Peterson Rd. Improvements
- Inspections Using Drones
- Q&A Session



# **DECI Program**

- Modeled after other regional programs:
  - Delaware, Georgia, Michigan
- Uses basic NPDES structure
- Adopted in January 2006





# Goals of the DECI Program

- Increase awareness and monitoring of soil erosion and sediment control (SE/SC)
- Improve communication between the enforcement agency and developer for SE/SC issues
- 3. Reduce suspended sediment levels in receiving streams and lakes
- 4. Improve water quality





#### What is a DECI?

- Liaison between applicant/developer and Enforcement Officer
- Trained and qualified SE/SC inspector
- Employed by the applicant and not the permitting agency





#### Becoming a DECI

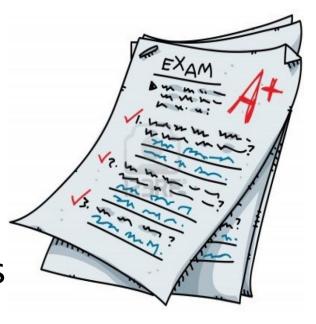
- One page SOQ
  - Complete SMC-approved SE/SC course
  - Either
    - CPESC or CESSWI designation
    - Two years cumulative experience
  - Pass the DECI Exam
- SMC review and approval





#### **SMC DECI Exam**

- ▶ 100 questions
  - WDO requirements
  - SE/SC practical application
- Online/Open book
- \$0 (free)
- ▶ 3-hour time limit
- Need a 90% or better to pass





#### Maintaining DECI Status

- Relisting of DECIs every 3 years (2017)
- 24 work-related PDHs during the relisting period
  - Red Vector
  - PDHOnline.org
  - Encap, Inc. (continuing education only)
  - Others, as approved





# **DECI De-listing**

- SMC has authority and responsibility to suspend a DECI's status for repeated or recurring non-compliance
- De-listing procedure includes formal notification to DECI with response request
  - Inadequate response = strike





# When is a DECI Required?

- Regulated development in Lake County
  - 1. Exceeds 10 acres of hydrologic disturbance
  - 2. Exceeds 1 acre of hydrologic disturbance and has a regulatory floodplain or wetlands (IWLC or WOUS) on-site or on adjoining property
- At the Discretion of the EO:
  - Less than or equal to 1 acre of hydrologic disturbance and has a regulatory floodplain or wetlands on-site or on adjoining property





#### **DECI Responsibilities**

- Inspect after every 7 calendar days and within 24 hours of a storm even with greater than or equal to 0.5-inch of rainfall or liquid equivalent precipitation
- Keep a written log of inspections
- Keep a copy of EO-approved SE/SC plans at the development site





# **DECI Responsibilities**

- Notify EO within 24 hours of when the site is not in compliance with WDO or approved SE/SC plans
- Propose corrective measures to be taken
- Recommend additional SE/SC prevention measures, as necessary





#### Required Inspections

- After completion of installation of SE/SC measures, prior to proceeding with any other earth disturbance or grading
- Routine Inspections:
  - Every 7 calendar days
  - Within 24 hours after 0.5-inch precipitation





#### Recommended Inspections

- After site clearing of tree and brush
- After rough grading
- After final grading





#### Recommended Inspections

- After seeding and landscaping
- After permanent stabilization and landscaping, prior to SE/SC removal
- After removal of SE/SC measures





#### **DECI Inspection Report**

#### www.lakecountyil.gov/Stormwater (DECI section)

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Concre	ete Washout	☐ Yes ☐ No	DNA
	is there an available on site concrete washout?	☐ Yes ☐ No	□N/A
	is the concrete washout self-contained?	Yes No	DNA
	is the concrete washout well maintained and functional?	☐ Yes ☐ No	- DWA
Constr	uction Access I r.o.w. (right-of-way)		
	Are all ingress and egress points covered by a temporary construction entrance?	☐Yes ☐No	□N/A
	is the entrance constructed with 3" coarse aggregate?	☐Yes ☐No	DNA
	Has an appropriate geotextile material been installed underneath the stone?	☐ Yes ☐ No	DNA
	is the entrance appropriately sized, both in width and length?	Yes No	DWA
	is the entrance adequately preventing tracking of dirt, mud, and sediment onto roadways?	☐ Yes ☐ No	- DNA
Constr	uction Sequencing		
	is the project in step with the approved/permitted construction sequencing?	☐Yes ☐No	□NA
	Does the construction sequencing best utilize SESC performance?	☐Yes ☐No	
•	Is the stormwater management system for the project installed and functional?	☐Yes ☐No	- DNA
Detent	ion/Sediment Rasin		
	Is the basin installed?	☐Yes ☐No	DNA
	Is the basin adequately stabilized?	☐ Yes ☐ No	DWA
	is there evidence of sufficient coverage of native vegetation?	Yes No	DNA
	is the emergency overflow constructed with the required materials?	☐Yes ☐No	□NA
Dewale	rring Facility		
	is devatering directly entering a waterway or wetland?	☐Yes ☐No	DWA
	Are dewatering activities conveying sediment laden water?	☐Yes ☐No	DNA
	Are appropriate dewatering BMP's in place and functioning effectively?	☐ Yes ☐ No	DNA
	If a sediment bag is being used, is it capturing sediment effectively?	☐ Yes ☐ No	DWA.
Directi	onal Drilling		
	is there a contingency plan in place for frac-out control?	☐ Yes ☐ No	DWA
	Is there any evidence of uncontained frac-out on site?	☐Yes ☐No	DNA
	is the directional drilling/boring path being monitored regularly for frac-out?	☐ Yes ☐ No	DWA
	Is directional drilling/boring material being disposed of properly?	☐ Yes ☐ No	<b>□</b> N/A
Dilleh C	Theeks		
	Are ditch checks installed at all required locations, as needed?	Yes No	DNA
	Are ditch checks installed correctly?	☐ Yes ☐ No	DWA
	Are ditch checks being maintained/deaned routinely?	☐ Yes ☐ No	- DWA
Dest C	central – sweeping, wacuuming, spraying, etc.		•
	Are dust control measures being used as needed?	☐Yes ☐No	□N/A
	Is dust observed moving offsite due to wind?	☐ Yes ☐ No	DWA
	Are roadways being swept or swept and vacuumed when needed?	Yes No	DWA.
ECBVT	RM Installation		
	Are all Erosion Control Blanket or Turf-Reinforcement Mats installed per plan?		
	Are all ECS/TRM installed with the correct staple pattern?	☐Yes ☐No	□NA.
	Are all ECS/TRM properly trenched in where necessary?	☐ Yes ☐ No	DWA
	Are all ECS/TRM installed perpendicular to the slope?	☐ Yes ☐ No	DNA

#### When are DECIs Done Inspecting?

After permanent stabilization and EO approval of the as-built plans





#### Permanent Stabilization

- SMC's as-built approval requirements:
  - 90% areal coverage of vegetation, of which at least
     50% must be the desired species (EPA requires 70%)
  - No erosion, sedimentation or unstabilized areas
    - This includes stockpiles, if left for prolonged periods of time
- SE/SC removal
  - After permanent site stabilization has been achieved
    - Includes silt fence, perforated risers, etc.



# **DECI Relisting**

- The Lake County WDO requires updating of the DECI list every three years by the SMC.
  - The current 3-year listing period is April 1, 2014 April 1, 2017
- Relisting will be performed using a website, which will allow training documents to be uploaded.
- Relisting will begin around January 16th



# **DECI Relisting**

- To be relisted, you will need to provide SMC with the following prior to February 28, 2017:
- Check or money order for \$60.00 made payable to the Lake County SMC for the DECI relisting processing fee
- 2. Documentation (online submission) of a minimum number of hours or work-related training according to the following guidelines:



#### **DECI Relisting Training Documentation**

- DECIs listed in 2014:
  - A minimum of 24 hours of work-related professional development training completed
- DECIs listed in 2015:
  - A minimum of 16 hours of work-related professional development training completed
- DECIs listed in 2016:
  - Will not need to provide training documentation until the next listing period
  - Will still need to go through the relisting steps, as explained on the previous slides
- This information and more details will be emailed following this workshop and will also be available on SMC's website.



#### Questions?

Lake County SMC 500 W. Winchester Rd., Libertyville, IL 60048 847/377-7700

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